

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
23 June 2005 (23.06.2005)

PCT

(10) International Publication Number
WO 2005/057409 A1

(51) International Patent Classification⁷: **G06F 9/455**

(21) International Application Number:
PCT/KR2004/003274

(22) International Filing Date:
13 December 2004 (13.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10-2003-0090766
12 December 2003 (12.12.2003) KR

(71) Applicant (for all designated States except US): **ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE [KR/KR]**; 161, Gajeong-dong, Yuseong-gu, Daejeon 305-350 (KR).

(72) Inventors; and

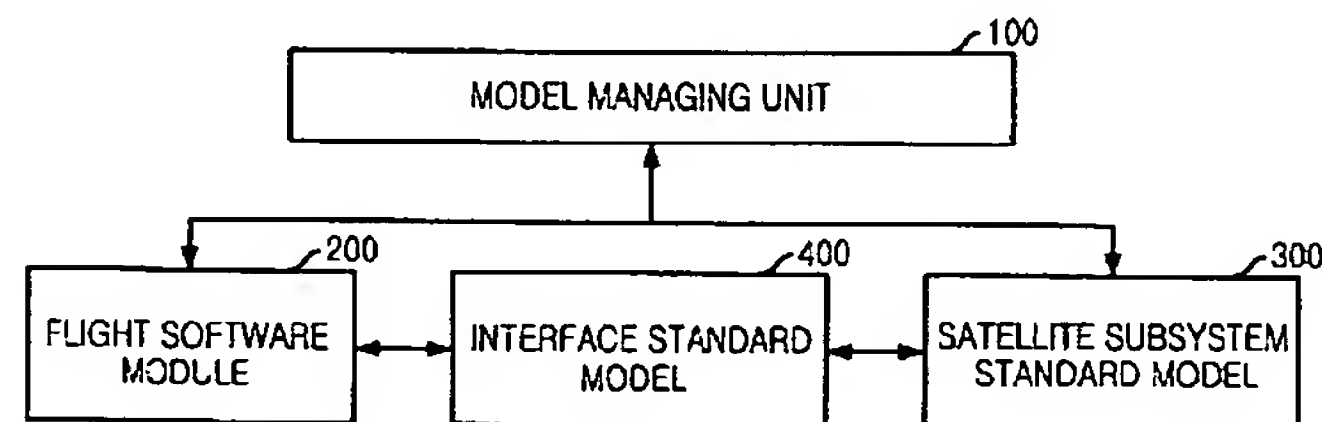
(75) Inventors/Applicants (for US only): **CHO, Sung Ki [KR/KR]**; #E-2 Daedong Village, 392, Gung-dong, Yuseong-gu, Daejeon 305-335 (KR). **LEE, Sang Uk [KR/KR]**; #209-1704 Beodeunae Apt., Taepyeong 2-dong, Jung-gu, Daejeon 301-780 (KR). **KIM, Jae Hoon [KR/KR]**; #109-1303 Hanbit Apt., Eoeun-dong, Yuseong-gu, Daejeon 305-755 (KR). **LEE, Seong-Pal [KR/KR]**; #109-602 Cheonggu Narae Apt., Jeonmin-dong, Yuseong-gu, Daejeon 305-729 (KR).

(74) Agent: **SHINSUNG PATENT FIRM**; 2F, Line Bldg., 823-30 Yeoksam-dong, Kangnam-ku, Seoul 135-080 (KR).

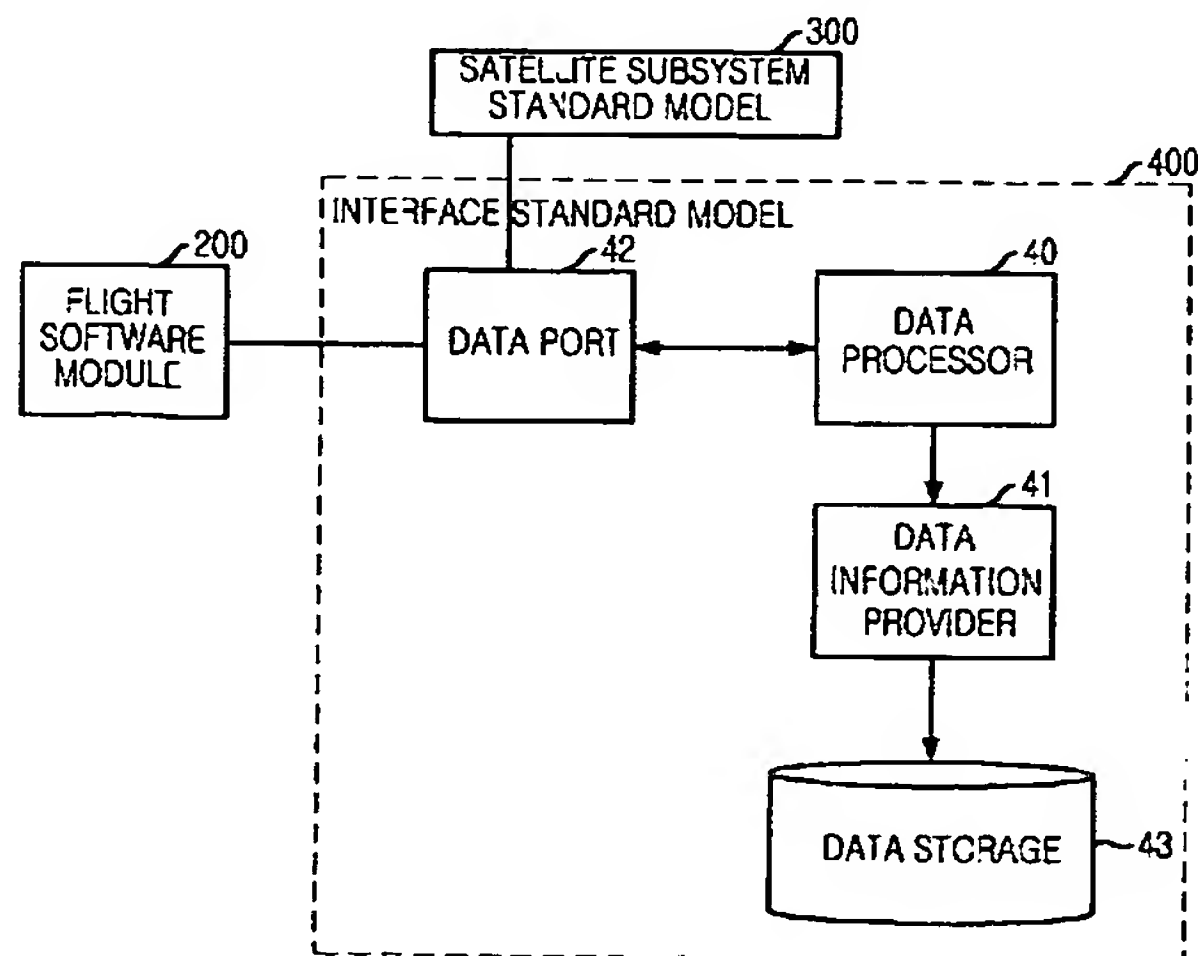
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH,

[Continued on next page]

(54) Title: **SATELLITE SIMULATION MODEL SYSTEM BASED ON INTERFACE STANDARD MODEL**



[Fig. 2]



(57) Abstract: A satellite simulation model system based on an interface standard model is disclosed. The system includes a satellite subsystem standard model for simulating operations of physical satellite subsystems; a flight software module for generating a control signal changing operation state of the satellite subsystem standard model; an interface standard model for converting data transmitted from the satellite subsystem standard model and the flight software module into data to receiving components and transmitting the converted data to the receiving components; and a model managing unit for generating the satellite subsystem standard model and the interface standard model as independent component objects and controlling each component object to perform satellite simulation.



PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.